

FIG. 1

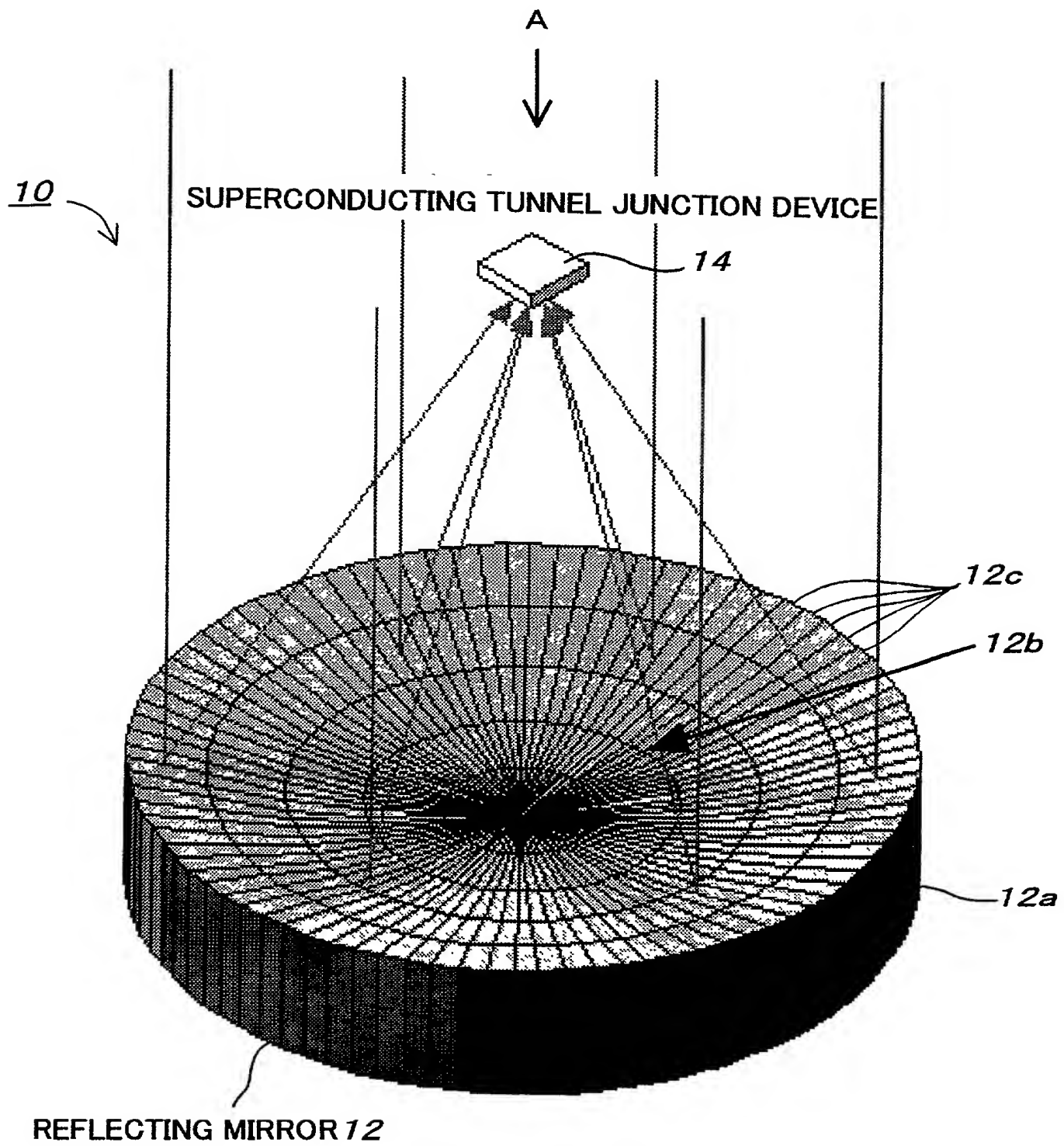


FIG. 2

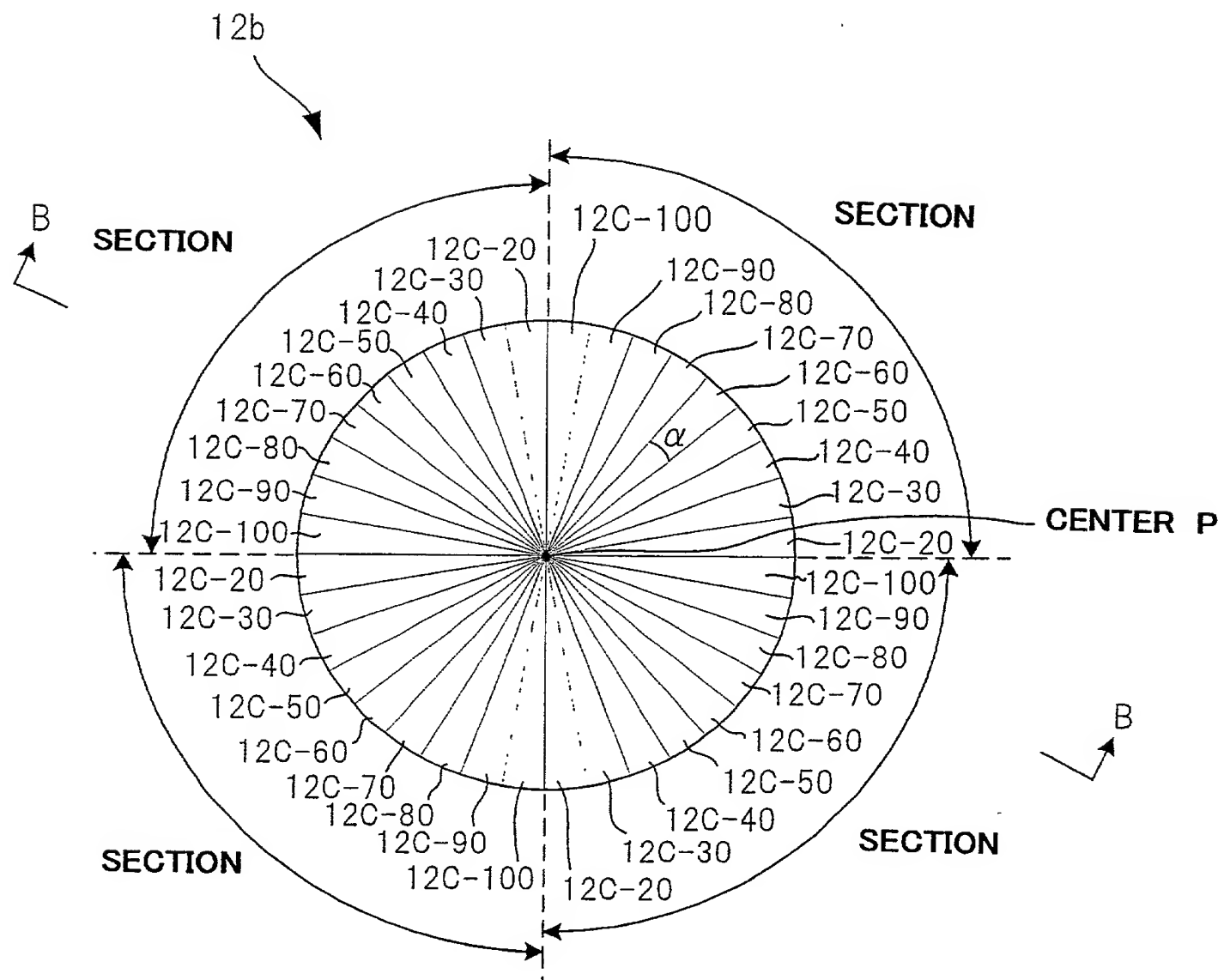


FIG. 3

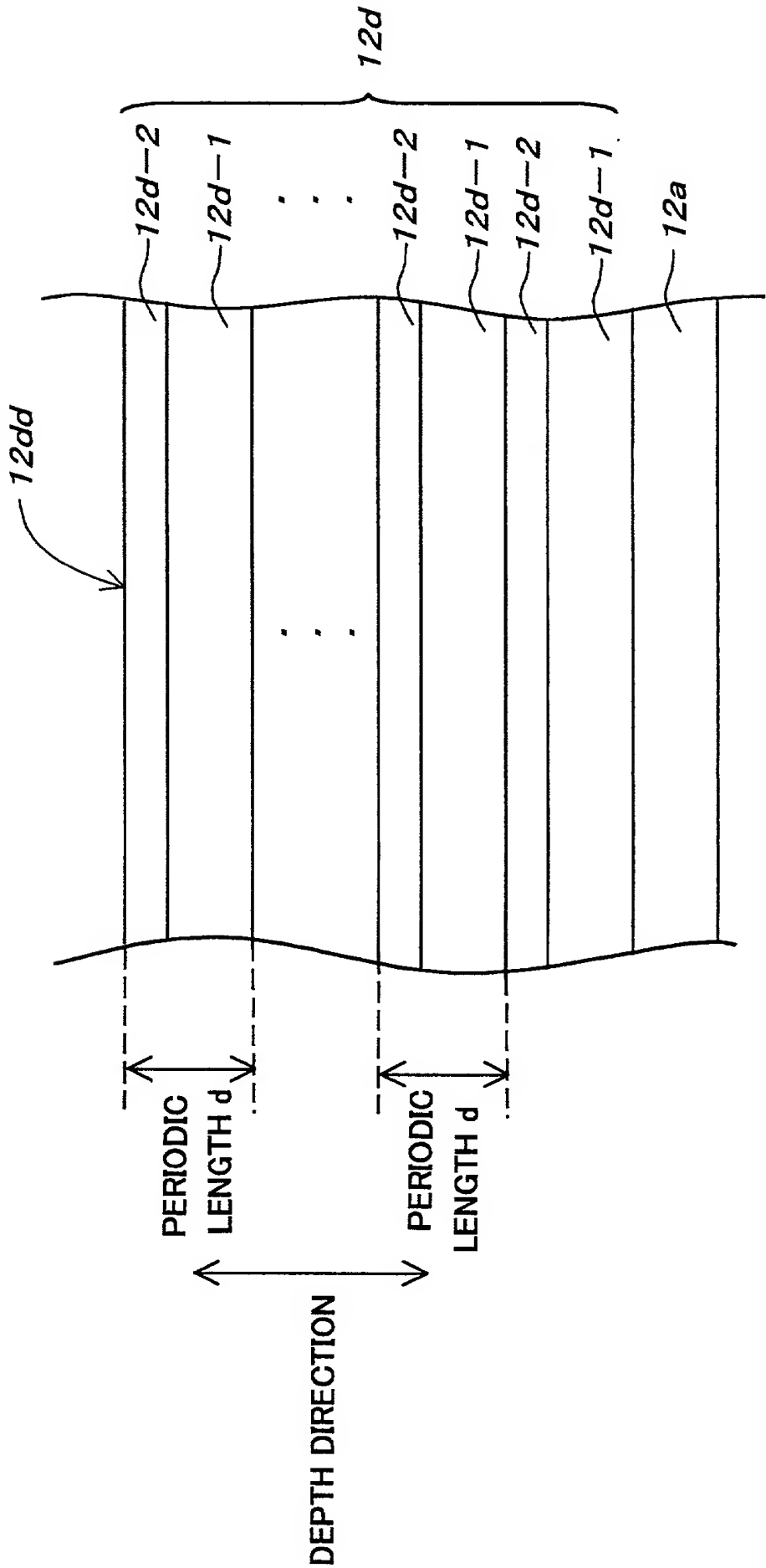


FIG. 4(a)

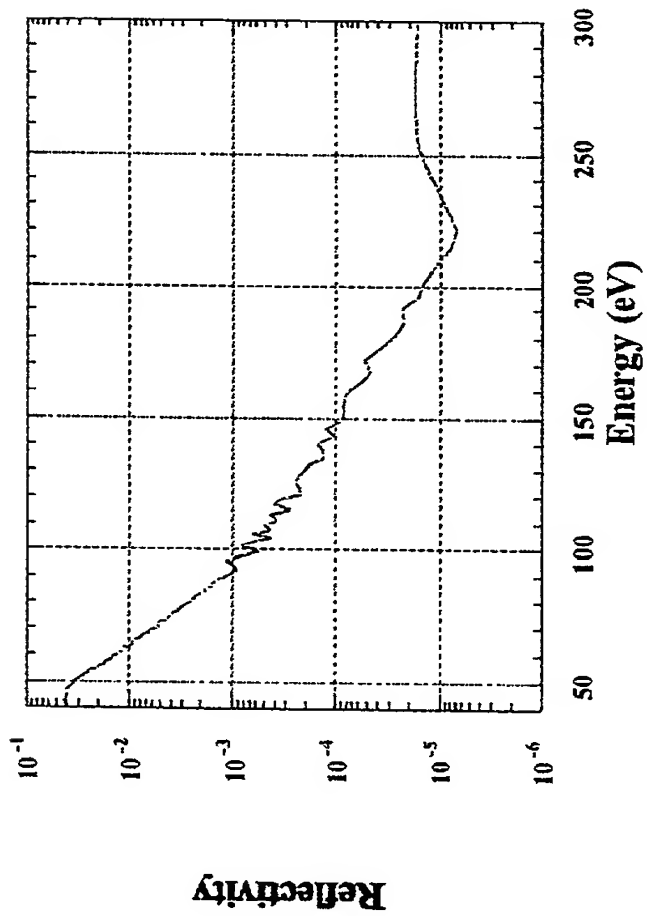


FIG. 4(b)

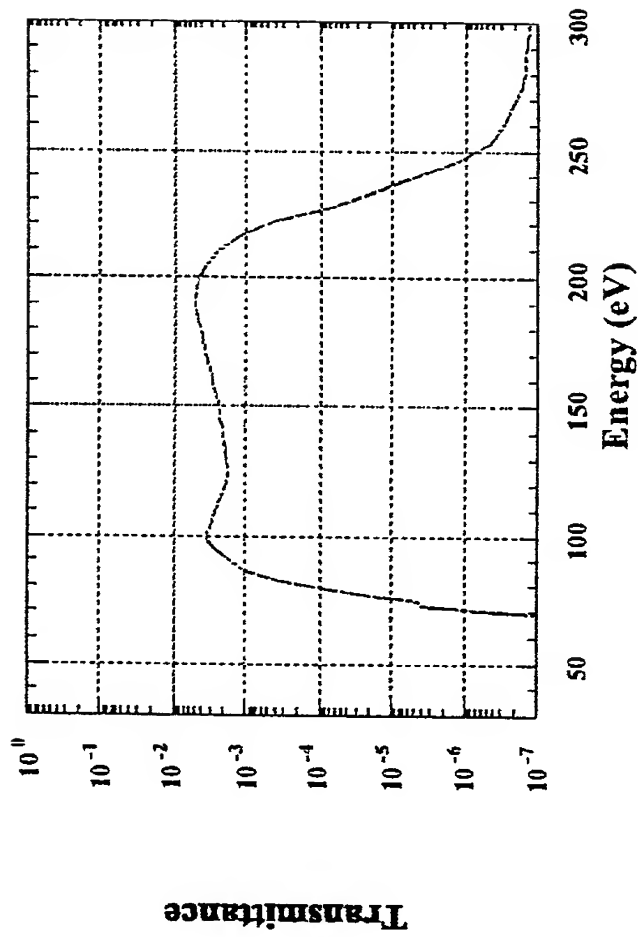


FIG. 5

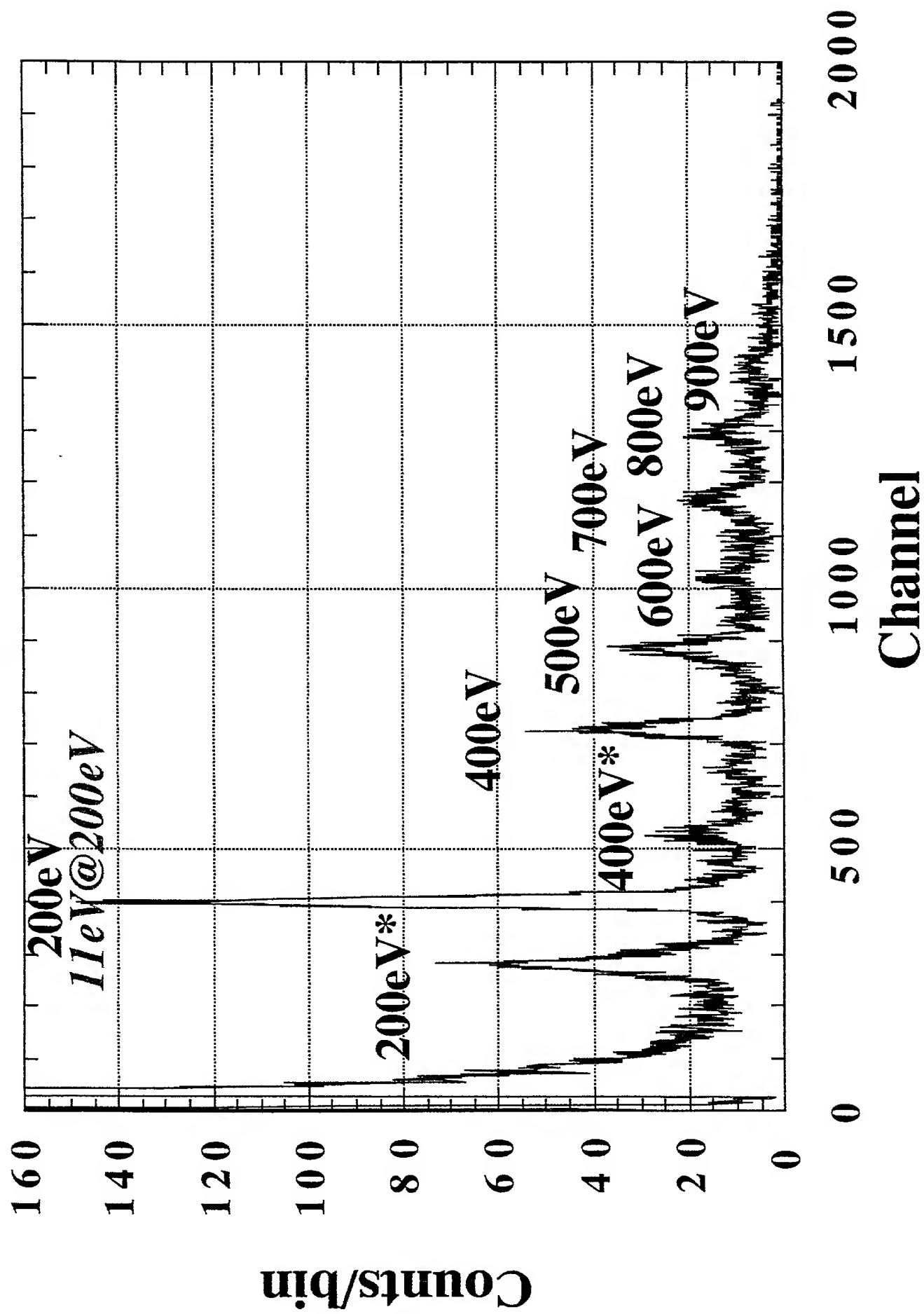
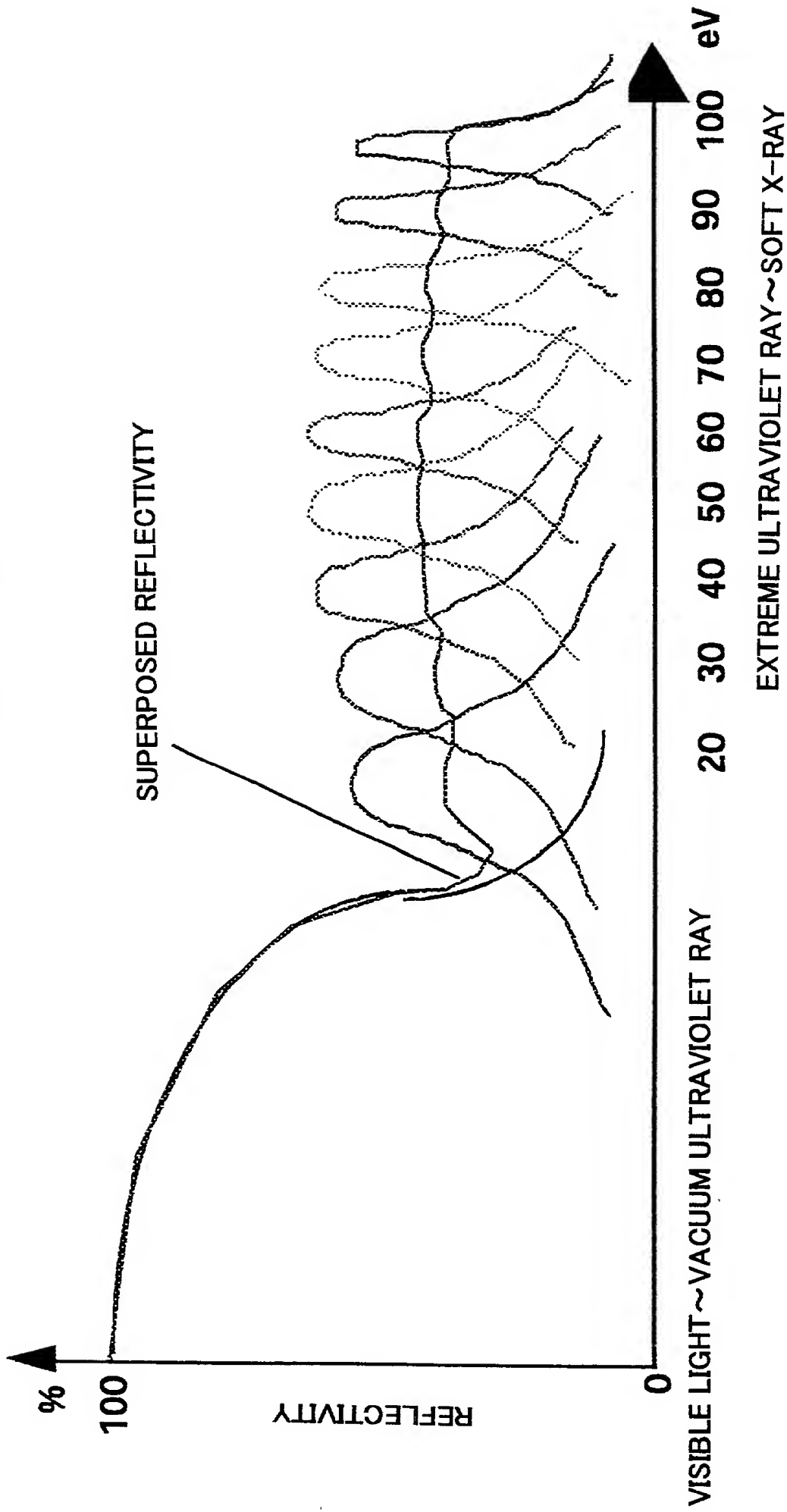


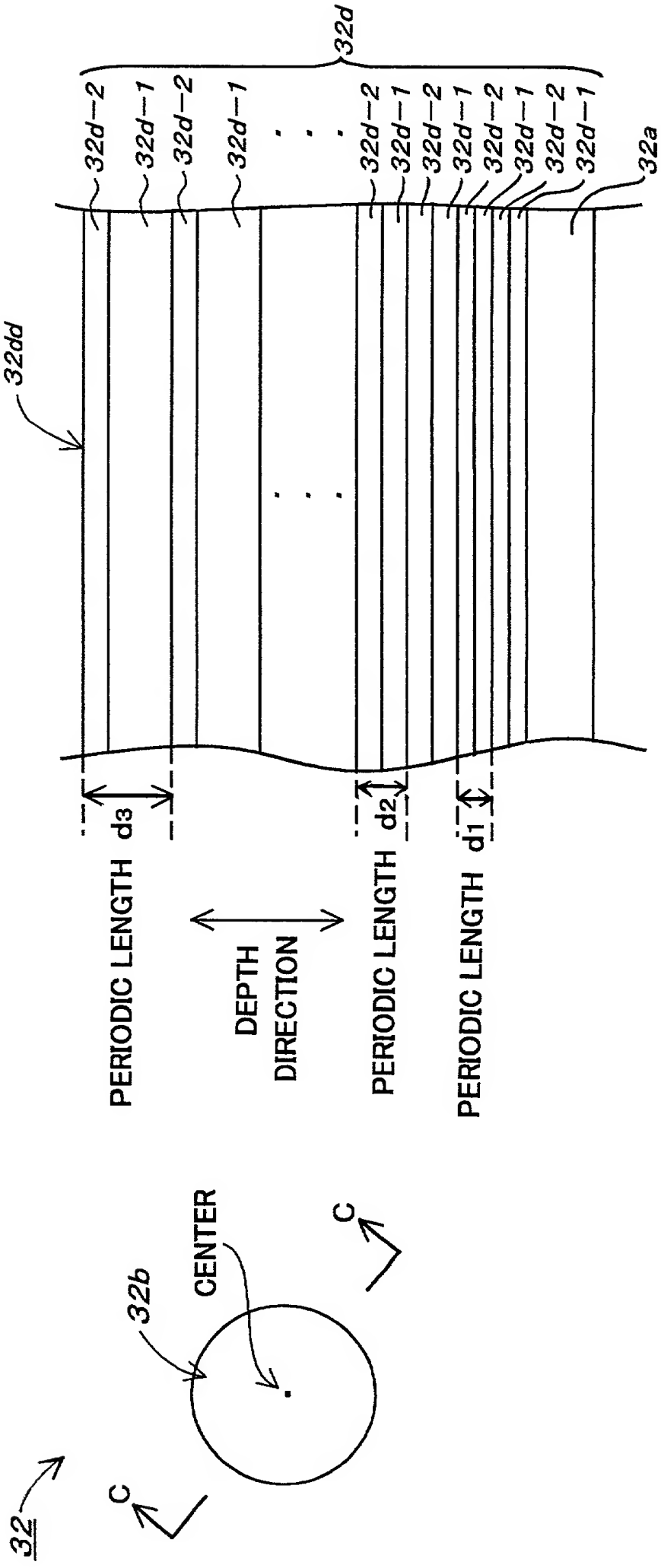
FIG. 6



SYNTHESIZED REFLECTIVITY CHARACTERISTICS OF MULTILAYER FILM REFLECTING MIRROR

FIG. 7(a)

FIG. 7(b)



[illegible]

NUMBER	MATERIAL1	MATERIAL2	VALUE δ	VALUE γ	NUMBER OF PAIR LAYER	THEORETICAL CALCULATION1	THEORETICAL CALCULATION2
1	Mo	Mg2Si	170	50	20	O	O
2	Mo	Mg2Si	190	50	20	O	O
3	Mo	Mg2Si	210	40	20	O	O
4	Mo	Si	115	50	20	O	O
5	Mo	Si	140	50	20	O	O
6	Mo	Si	55	50	20	O	O
7	Mo	Si	60	50	20	O	O
8	Mo	Si	65	50	20	O	O
9	Mo	Si	65	70	20	O	O
10	Mo	Si	70	70	20	O	O
11	Mo	Si	75	70	20	O	O
12	Mo	Si	80	50	20	O	O
13	Ni	C	22	40	200	O	x
14	Ni	C	25	40	200	O	x
15	Ni	C	30	40	200	O	x
16	Ni	C	40	30	30	O	x
17	Ni	C	45	30	30	O	x
18	Ni	C	50	30	30	O	x
19	Ni	C	55	30	30	O	x
20	Ni	C	60	30	30	O	x
21	Mo	Si	85	50	20	O	O
22	Mo	Si	90	50	20	O	O
23	Mo	Si	95	50	20	O	O

FIG. 9

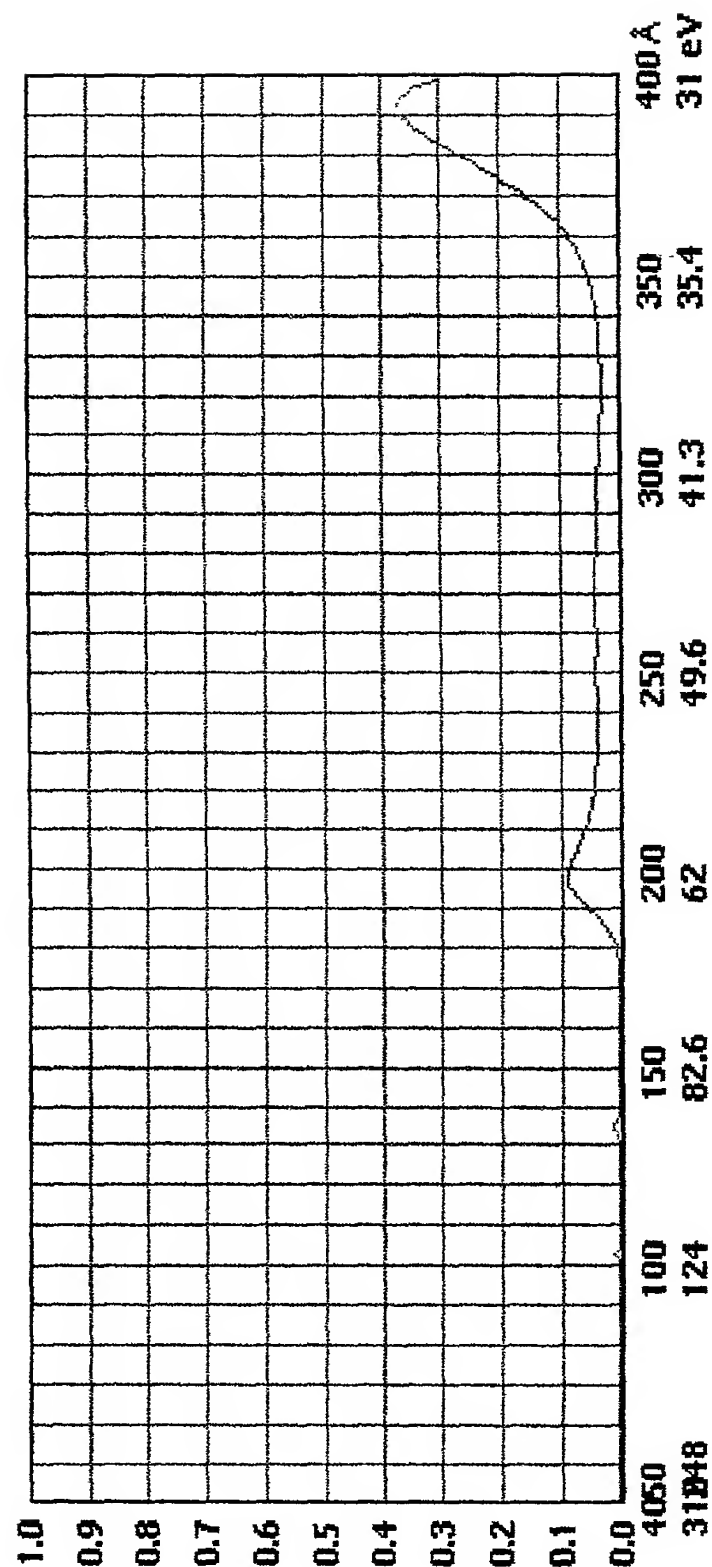


FIG. 10

COMPARISON OF SYNTHESIZED REFLECTIVITY IN
MULTILAYER FILM WITH REFLECTIVITY IN Pt MONOLAYER FILM

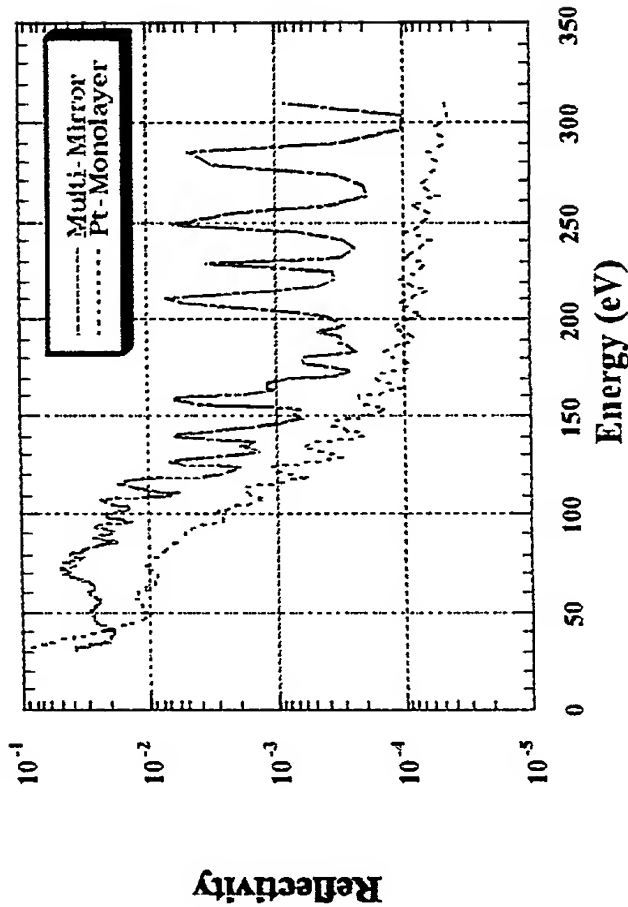


Figure 1 is a line graph showing Reflectivity versus Energy (eV). The y-axis is logarithmic, ranging from 10^{-5} to 10^{-1} . The x-axis is linear, ranging from 0 to 350 eV. Two curves are plotted: a dashed line for the Pt-Mirror and a dotted line for the Pt-Monolayer. The Pt-Mirror curve shows a sharp dip in reflectivity at approximately 150 eV. The Pt-Monolayer curve shows a broad dip around 150 eV and a sharp dip at approximately 220 eV.

FIG. 12

MULTILAYER FILM Mo/Mg₂Si VALUE d 200
VALUE G 30 100PAIR LAYER

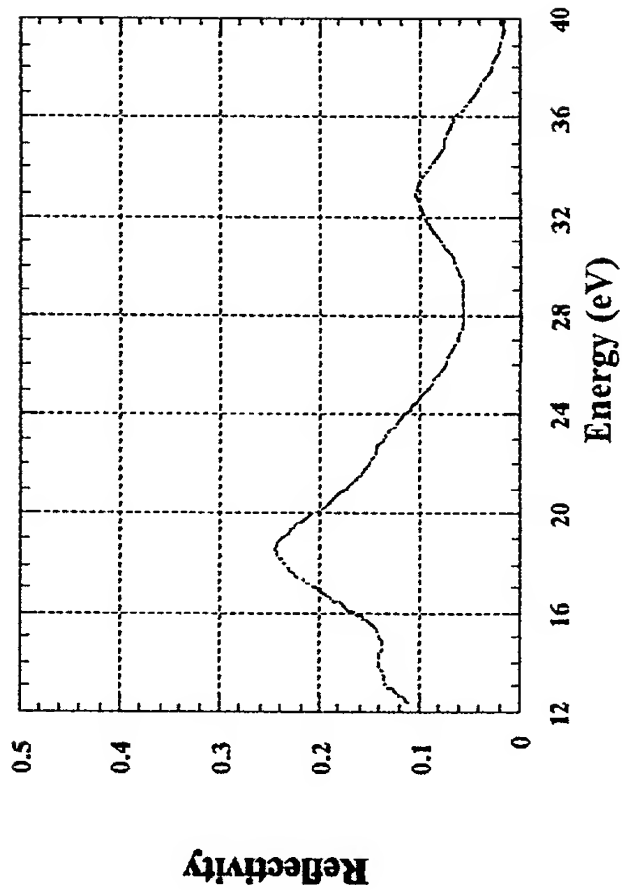


FIG. 13

NUMBER	MATERIAL 1	MATERIAL 2	INITIATION VALUE d	TERMINATION VALUE d	VALUE γ	NUMBER OF PAIR LAYER
1	Mo	Si	170	50	30	20
2	Mo	Si	190	50	50	20
3	Mo	Si	210	50	35	20
4	Mo	Si	115	50	25	20
5	Mo	Si	140	50	20	100

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FIG. 14

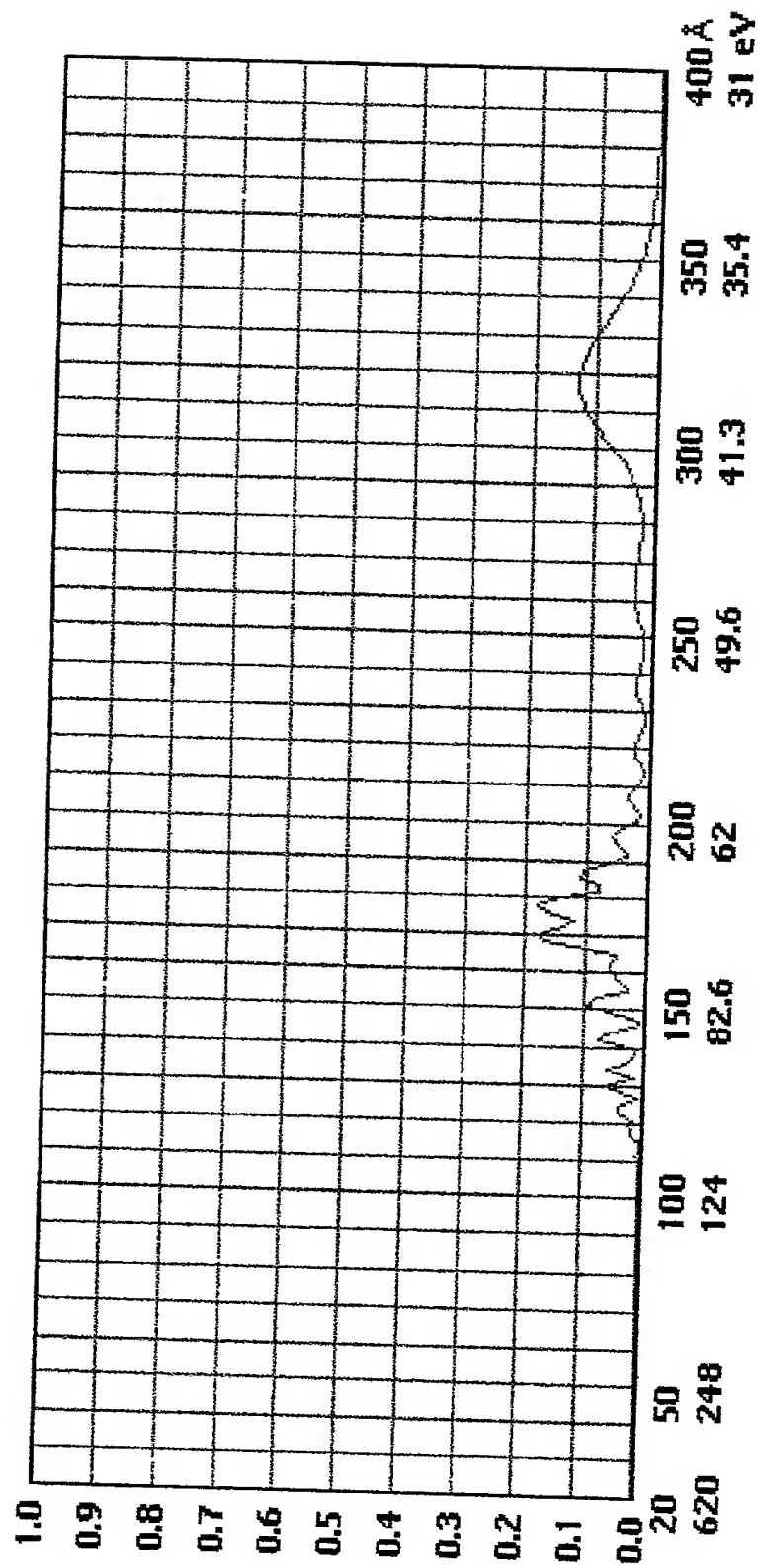


FIG. 15

COMPARISON OF SYNTHESIZED REFLECTIVITY IN
SUPERMIRROR WITH REFLECTIVITY IN Pt MONOLAYER FILM

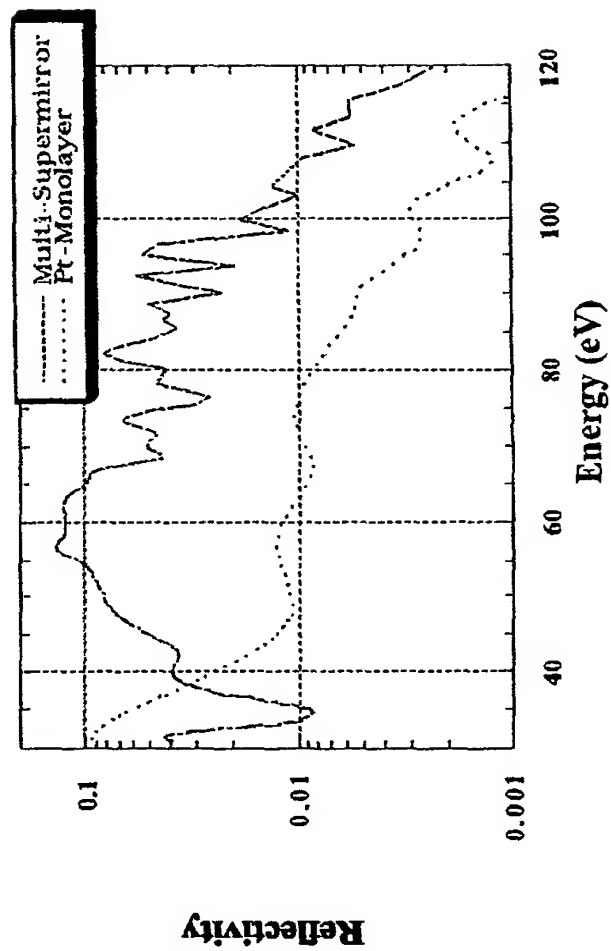


FIG. 16(a)

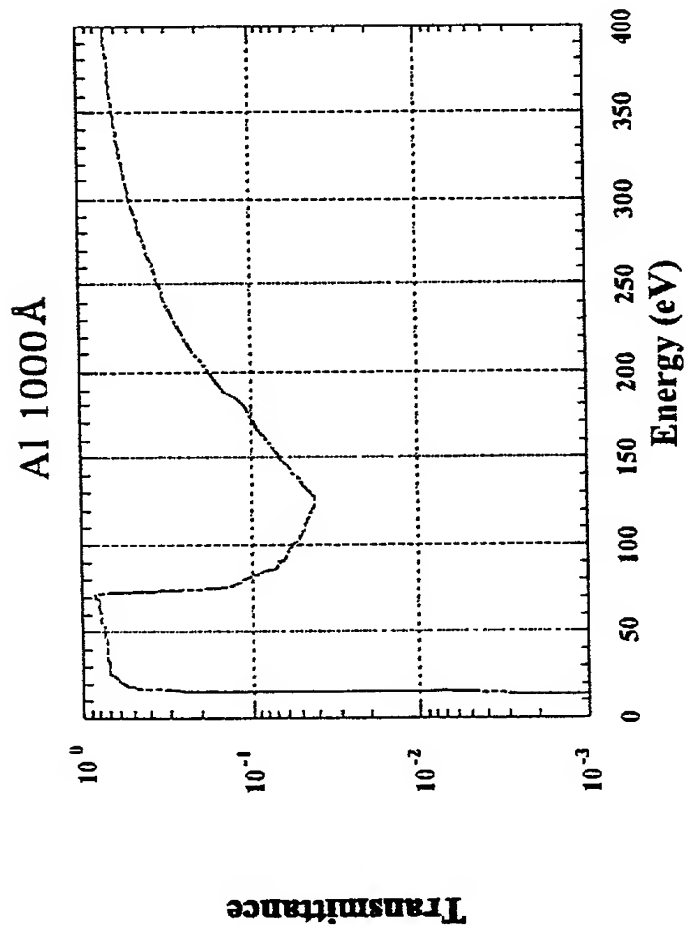


FIG. 16(b)

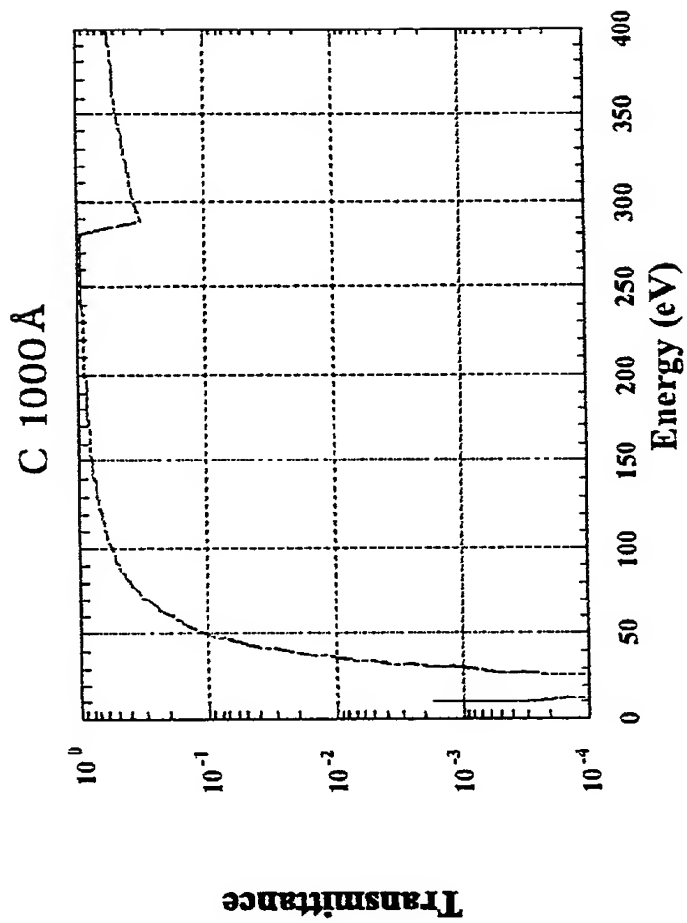


FIG. 17(a) FIG. 17(b)

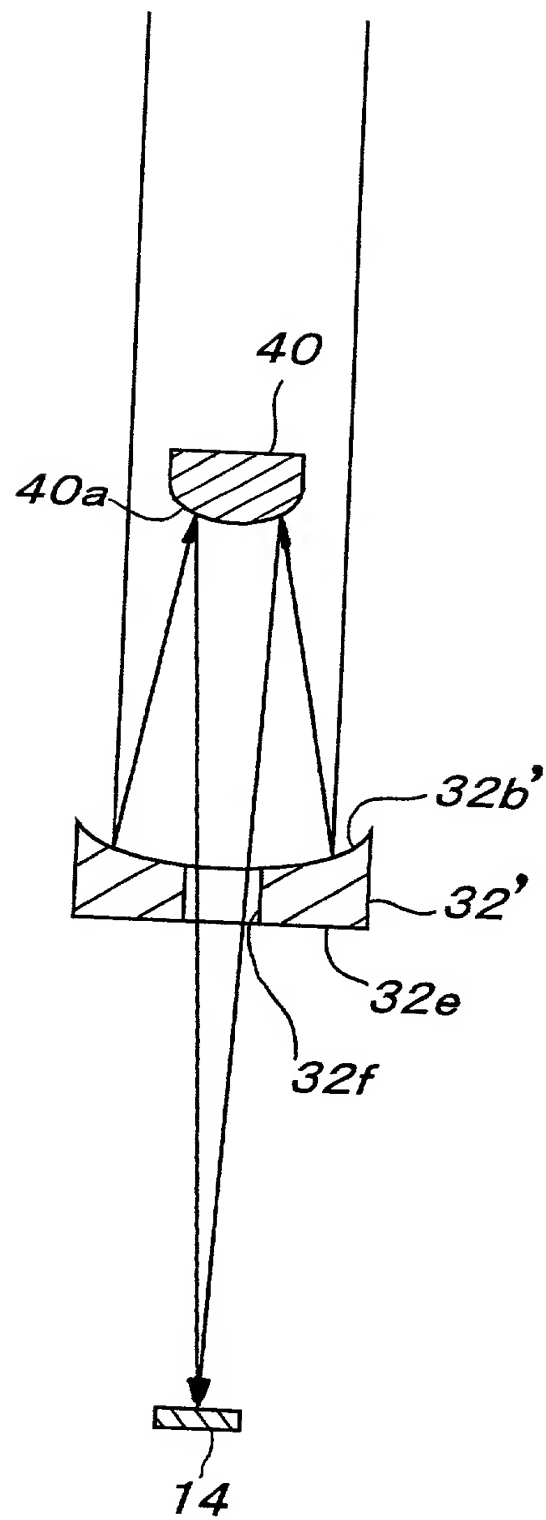
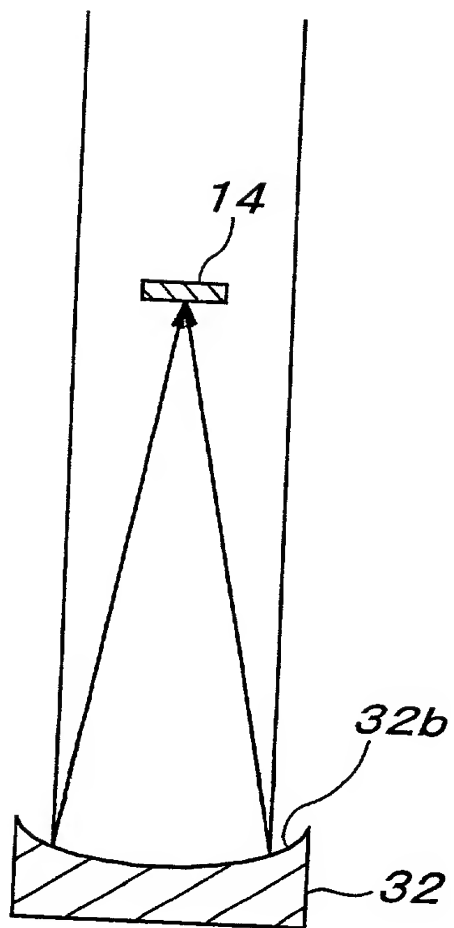


FIG. 18

